

THE TECH

VOL. XXVIII. No. 67

BOSTON, MASS., FRIDAY, APRIL 9, 1909

PRICE THREE CENTS

ELECTION REFORM OF MARSHALLS

**Three Chief Marshalls to be
Elected on Second
Ballot**

ORDER PORTFOLIO NOW

**Class Must Support Committee to
Make the Portfolio a
Financial Success**

1909 held a class meeting yesterday afternoon to consider the advisability of changing the manner of electing the chief marshalls for Class Day. According to the first plans, the twenty-five men receiving the highest number of votes were to be marshalls, and the three highest men were to be marshalls, ranking in order of the votes they received. This made it possible for a popular man, who was, perhaps, unfitted for the position, to be elected to the very important place of first marshal. To prevent this the marshalls are to be chosen from the marshalls in a second ballot.

H. E. Whitaker 1909, made a report on the condition of the Senior Portfolios. Out of 324 men having their picture in the Portfolio, only 145 have deposited their three dollars and signed up for the book. It is of the utmost importance that this be done as soon as possible. On April 15, the final orders for books go to the printers, and after that date no orders can be received. The books are to be sold at cost, from five to six dollars depending on the number ordered, and no extra ones are to be ordered because, if unredeemed, the class will have to pay for them.

Committees from each course have been appointed to canvass their respective departments for these portfolios, and it is hoped that at least two hundred and fifty men will sign up for them, otherwise the Portfolio will not be a financial success.

JUNIOR PROM PLANS

On Wednesday, April 21st, the annual Junior Prom will be held at the Hotel Somerset. The committee has completed all arrangements toward making this year's prom the most successful ever given. One of the best orchestras in the country has been engaged to play. The committee has departed from the usual custom in regard to programs, and will present something unique and attractive which will be a neat souvenir of the evening to take away, and it is hoped that it will serve as a reminder of a very pleasant occasion.

The committee has decided that no flowers shall be worn on the floor. This step has been taken at other college proms, and has proved to be a fine thing. The dancers will no longer slip on leaves and flowers, and the young ladies will be relieved of the burden of an armful of long-stemmed posies. It is hoped that everyone will co-operate with the committee and carry this plan out.

Arrangements have been made providing a definite seat for everyone. The names of fellows desiring to sit together should be left for the committee at the Cage immediately. In this way the worry and hunting all through a large dance hall for a partner will be eliminated.

Anyone who has not completed his dance order at this time and desires any dances, will be put in touch with others in a similar position if he will leave his name at the Cage for the prom committee.

Edgar B. Thompson 1882, has been appointed superintendent of motive power and machinery of the Chicago, St. Paul, Minneapolis & Omaha R. R.

TRANSPORTATION PROBLEMS IN N. E.

**J. A. Drogee Speaks at Civil
Engineering Meeting
Wednesday**

TALKS ON FREIGHT

**Conditions in England Similar to
Those of New England
States**

At a meeting of the Civil Engineering Society Wednesday, J. A. Drogee, superintendent of Providence Division N. Y., N. H. & H. R. R., spoke on the problems of freight transportation in the New England States.

There are three essential features of importance to the shippers, he said, first, the cost; second, the despatch of service, and third, the regularity and reliability of the service. The present system of giving four days in which to load or unload a car, reduces four dollars from its producing power. What ought to be done is to put the freight cars on a day rather than a mile basis. Much is to be said in favor of combining steam and electric railroads, for this would enable much handling of small freight.

There has been a vast increase of industries and shipping without a corresponding increase in the number of side tracks. What is needed is a special placing of cars for special freight.

As an illustration of rapid and economic handling of freight, Mr. Drogee cited the English railroads. In England the average freight load is 12,000 pounds; the large cars used here on the trunk systems are not economic. The English idea is to keep everything moving, by breaking up the loads and running smaller trains. The English railroads carry freight directly from the shipper's door to the receiver's, and this they accomplish by handling freight on drays.

This service has stood the test for the last 30 years, and will likely stand it for a long time yet. The speed of the fastest freight trains is 35 to 40 miles an hour, and freight shipped at night within a 400 miles radius is delivered the next morning. The paying part of the load differs also from the American roads. In England 70 to 74 per cent. is paying, while here only 30 to 35 per cent. of the load of the train is paid for. The freight to be handled in the New England States is much like that of England owing to existing conditions in industry and commerce, and much different from the traffic in other parts of the United States.

The transportation facilities used in other parts of the United States are therefore not applicable to New England, and it is up to the engineers of the future to solve this problem.

After the speech, a vote of thanks was made, and the date of the annual banquet was fixed for May 6. At the next meeting, Friday, April 16, Dean Burton is to speak.

BANKING HISTORY

Professor Davis R. Dewey will prepare a Study of Banking History in America for the National Monetary Commission, which is preparing, at the direction of Congress, concrete propositions looking to the establishment of a central bank, recommending other important changes in our currency system, and providing new methods for the supervision of national banks. Dr. Dewey's History of Banking begins before the Civil War, giving special attention to the first and second U. S. Banks, and the Safety fund, and free banking systems of New York.

EMMONDS SPEAKS ABOUT BOILERS

**Explains Construction in
Detail Before M. E.
Society**

LECTURE ILLUSTRATED

**Program Committee Appointed
Several Men Admitted
To Membership**

Wednesday night, Mr. Emmonds of the Heine Boiler Company spoke to the Mechanical Engineering Society on the Heine boiler. The lecture was of especial interest to the juniors, who have recently been studying boilers.

The Heine boiler was invented by H. Heine and perfected by Col. Meyer. The boiler consists of the large drum, two water legs and a number of circulation tubes. These tubes are substituted for the single larger tube employed in other boiler systems. The water legs, which connect the tubes with the main drum consist of two plates joined by a continuous belt strap. They are built to stand five hundred pounds pressure. The drum resembles the usual drum. The man-hole plate opens toward the inside, so that the internal pressure will hold it in place. There is also but one opening in the drum for both outlet and safety valve, unnecessary weakening of the drum being thus prevented. An internal "mud drum" is arranged to catch most of the impurities of the water. The contents of this drum can be blown out at intervals of three or four hours without perceptible loss of heat in the main boiler.

The boiler in position is inclined at an angle of twelve to one, with the front end held stationary and the rear water leg resting upon a brick wall, and movable to allow for expansion of the boiler. The entire boiler is enclosed by a double wall of brick. The inner wall consists of four and one-half inch fire brick, and the outer, of eight inch red brick. An air space of two inches is left between the two walls. This serves as insulation and allows for the expansion of the inner wall. The bottom rows of tubes are covered with fire-brick tile for their entire width and for three-quarters of their length from the front. The top row of tubes is similarly covered for three quarters of its length from the rear. These tiles direct the circulation of the heated gases.

A new contrivance, the superheater, may be supplemented to the regular boiler equipment. This device consists of a box corresponding to the water leg, and a number of U-tubes. The additional heated surface considerably increases the efficiency of the boiler. In fact, the size of the boiler determines the efficiency rather than the capacity. The capacity depends more upon the size of the grate and the strength of the draft.

The boilers are erected in batteries of two or three to prevent unnecessary heat radiation. At present, the boilers are built to stand 180 pounds pressure, but one is being designed for use in Cambridge, to stand four hundred pounds.

Mr. Emmonds illustrated his talk with a number of excellent slides showing the boiler in detail and various parts of the immense plants at Phoenixville, Pa.

The program committee of the M. E. Society was appointed as follows: Professor Lanza, Professor Hayward, H. A. Hale, Jr. 1910, and F. A. Dewey 1910.

The following men were admitted to the society: From 1910—C. A. Dunkel and R. S. Haley; from 1911—D. P. Allen, G. B. Wilkes, Frank Russel, S. B. Copeland, Kester Barr, P. D. White, R. G. Adams, C. H. Hobson, C. T. Morey, J. A. Herlihy, R. G. MacPherson, H. S. Lord, W. K. Hodgman, G. L. Metcalf and M. Mackenzie.

BASEBALL SEASON BEGINS TODAY

**Sophomores Line up Against
Volkman School in
First Game**

1912 PLAYS SATURDAY

**Will Meet the Roslindales From
Roxbury in a Practise
Game**

Volkman School are to be the sophomores' first opponents in baseball. The two teams will line up against each other at 3:30 this afternoon on the Volkman school grounds at Allston. Volkman has the advantage of playing on their own grounds and of having already played two games this spring. The sophomore team has had but little practise and only comparatively few men have been out for the team, so that prospects for a victory are not of the brightest.

Of the last year's men Capt. L. G. Odell can be counted upon to put up a good game on the initial bag, and C. L. Hufsmith the former Austin College captain has been showing good form at second. Behind the bat H. D. Williams is playing the same game as he did last season. For short stop there are two candidates, T. B. Parker who held the place last year and H. L. Robinson a new man who has shown up well.

At third base there seems to be a weak spot on the team, A. W. Yearance and D. R. Stevens are the only candidates. The former was a substitute last year and the latter is a new man. In the outfield there is Manager T. MacLaughlin who can be counted upon to fill his position in good style and who is besides a very strong man at the bat. F. W. Covill, L. G. Metcalf and C. Harrington are the only candidates and all three are likely looking men. Covill played last year.

By far the weakest place on the team is in the pitcher's box and it is unsettled who will fill the position. Deflorez has only been out one day, and MacLaughlin's arm is in poor condition. P. H. Pearson is another candidate, and although he is inexperienced, he will probably start the game.

Freshman base ball starts tomorrow with a game at the Field with Roslindale. The game will be only a practise one and most of the candidates for the team will be given a try-out. So far the team has made a good showing, but it will take a try-out while working together, to tell how good the men are.

The men who will line up as the first squad on Saturday will probably be: catcher, Whittlesey; pitcher, Allen; first base, Cherry; second base, MacAvoy; third base, Foster; short stop, Eichler; left field, Coulson; center field, Sage; right field, Horgan.

The infield is especially fast this year and the outfield should hold their own at least. Whittlesey and Horgan

(Continued on page 3.)

CALENDAR

FRIDAY, APRIL 9.

3:30 P. M.—Volkman vs. 1911.
4:15 P. M.—Union Committee meeting.
6:30 P. M.—N. Y. Club dinner at Union.
8:00 P. M.—Class of 1885 Reunion at Union.
8:00 P. M.—Union Night.

SATURDAY, APRIL 10.

2:30 P. M.—Roslindale vs. 1912 at Field.
3:00 P. M.—Winchester vs. 1911.
3:00 P. M.—Rifle Club at Wakefield.

SUNDAY, APRIL 11.

6:45 P. M.—Y. M. C. A. at Union.

MONDAY, APRIL 12.

3:00 P. M.—Track work at Field.

THE TECH

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Friday, April 9, 1909

Although the present fencing season has been one of the best the Institute has ever had, the sport itself is one of the dearest of the dead activities here at Technology. That it has survived to the present day has been due largely to the interest taken by an energetic coach. Of the three men on this year's team, two are seniors and the third has definitely decided not to fence next season. The team next year must, then, be made up of green men unless some good fencers enter next fall. To

count on such a possibility is a poor plan to say the least.

Few take enough interest to go to the various meets; very few go out for the team. Is it worth while to spend money for such a sport when, even now, the student body must be canvassed that one of the fastest relay teams Tech has ever had may go on to Philadelphia to run in the Pennsylvania relay carnival?

Technology has, for a considerable period of years, followed the policy of eliminating sports that have proved failures through lack of support. The idea has always been to maintain only those activities that the men can and do enjoy. Activities that do not fulfill such conditions are detrimental to those that do. It has been proven satisfactorily that fencing is one of those that does not fulfill such conditions, and it should therefore for the good of the Institute be definitely abandoned.

Moreover, let such a step be taken now when the final season of the Technology fencing team may be likened to the fabled death song of the swan rather than delay for a year or so when the simile of the dying groans of a poisoned dog would perhaps be more appropriate.

Still we hear criticisms of the point system and of the dining room directed to the moon. Such vaporous mutterings do no good and a great deal of harm. The world in general can do nothing to remedy defects, in the point system or in the management of the dining room. That task is up to the committees, and the way to make your kick effective is to put it up to the proper committee by dropping it in the proper box in the Union.

Tech and Dartmouth will not meet on the track tomorrow, as has been supposed, the Dartmouth men for some reason being unable to meet Technology.

TENNIS COMPETITION

Spring tennis will be started next week with the new scheme for competition for the varsity team. A list of probably the ten best tennis players in the Institute has been posted. These men have been arranged in order of their supposed ability and any man may challenge the man next above him for the latter's position, while any player in the Institute may challenge the tenth man.

In this way it is hoped that a fair basis may be arrived at for naming the men who shall represent Technology in the Intercollegiate competition. All matches must be played off within a week of the challenge or the person challenged must default his position in the list. All men challenging should notify Capt. T. B. Parker 1911, to the effect.

The official list of the ten men in the order of their ability is as follows:

1, F. W. Covill 1911; 2, T. B. Parker 1911; 3, J. Scheuer 1910; 4, M. K. Sweet 1910; 5, P. M. Wentworth 1910; 6, H. P. Farrington 1910; 7, T. B. Whittemore 1910; 8, A. J. Barnes 1910; 9, L. W. Pritchett 1909; 10, J. W. Nickerson 1909.

TYPHOID REPORT

Professor William T. Sedgwick, head of the biological department of the Institute, a member of the advisory board of the hygienic laboratory of the United States Marine hospital Service, is making investigations on typhoid fever in Washington. Its continuance in that city in spite of sanitary precautions that have been taken, has been one of the mysteries of medicine in that district, and the full report of the commission is looked forward to as a valuable contribution to the literature of the disease.

GRADUATE GETS PLACE

Mayor Haussling of Newark, N. J., has selected as one of the two engineers who is to pass upon the report of the advisory committee on docks and meadow reclamation, Henry S. Adams 1887. For seven years Mr. Adams was city engineer of Cambridge, Mass., and for two years after that he was assistant engineer of Middlesex County. Since 1893 he has been engaged in private work. He has made plans and superintended the erection of docks, wharves and bulkheads, filled flats and designed and improved harbors. He had charge of the engineering work of the development of the harbor of Ponce, Porto Rico, and of the making of the surveys and designs for the harbors of Nome, Alaska, and Boca del Tora, in Central America. He has designed harbors in Buzzard's Bay, Vineyard Sound, and at Lynn, Mass.

COMPETITIVE DRILL

Next Wednesday afternoon the M. I. T. battalion holds its interscholastic prize drill. This is popularly known as the championship drill of New England, and is open to all high and preparatory schools which have military drill. Each competing school sends a team of three men. Medals are offered for first and second places, and a cup for the winning school. At present over a dozen schools have entered teams, and more are expected before Wednesday. The competition will be based on the manual of arms and facings. The schools turn out some unusual teams, and as the competitors include the pick of New England, they will be well worth watching.

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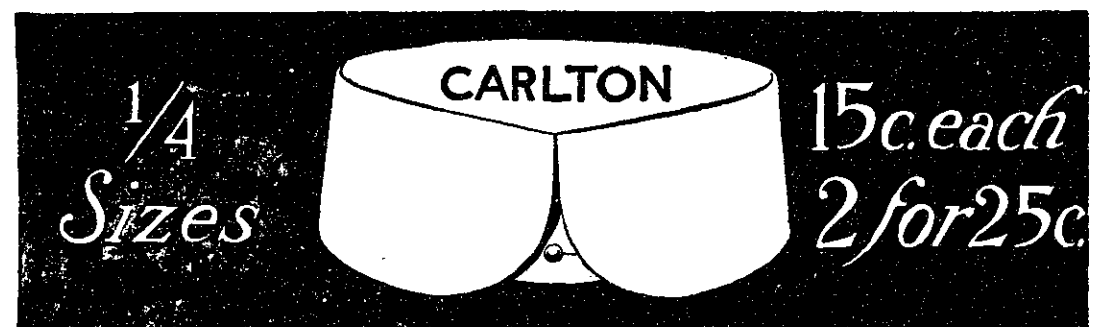
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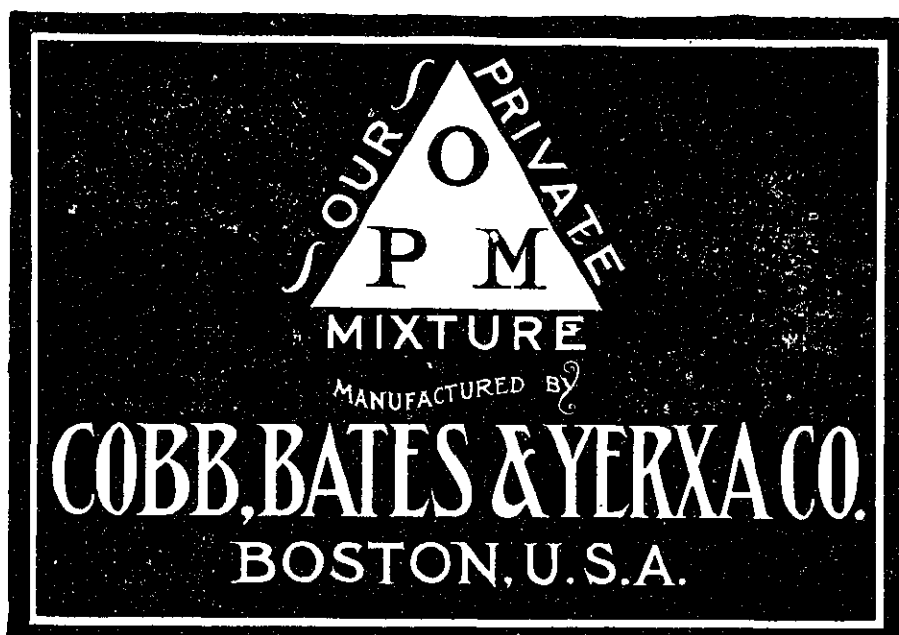
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The Review aims to develop closer relations among Institute men and to stimulate their interest in the work of the College. It is in no sense an engineering magazine, but deals broadly with the problems of Technological Education and the responsibilities of the professional man.

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BASEBALL SEASON

(Continued from page 1.)

behind the bat will certainly make good; and on the pitching staff, besides Allen; Sloan, Sage and Taylor are showing good form. At the first bag Cherry is as fast as any of the men covering the initial bag for other freshman teams. MacAvoy and Foster on second and third are playing very fast, but close behind them are Maguire and Riddel. Little Eicher at short stop is certainly making as much of a hit as he did with the pigskin last fall. In the outfield, Coulson is playing like a professional and a number of other men are making good, among these are Dunbar, Barnes, Paullis and Davis.

A week from tomorrow at the Field the freshman will meet the sophomores in the first game of the inter-class series and though the 1911 class has a reputation as a fast squad at the national game, the 1912 team is looking forward to a victory.

COURSE V THESES

We print below a list of course V theses that was omitted from a recent issue because of lack of room:

Babcock, Elizabeth B. "An Examination of the Analytical Methods for the Determination of Vanadium and Tungsten;" Christie J. A., "An Investigation of the Defects in Single Enamel Coatings on Sheet Steel;" Comins, A. K., "The Determination of Fat and Sucrose in Sweetened Condensed Milk;" Connolly, E. L., "Identification of the Various Alkaloids by means of the Crystalline Appearance of their Salts and some Derivatives under the Microscope;" Dyer, Brainerd, "Electrolytic Determination of Zinc;" Edge, A. F., "The Analysis of Commercial Lead Arsenate;" Gadsby, G. M., "Determination of Sulphurous Acid in Foods, with Especial Reference to Gelatine;" Healy, L. J. D., "Acid-proof Linings for Cement and Concrete Tanks;" St. John, B. H., "The Condensation of Ketones with Primary Amines;" Trenthardt, E. L. P., "Quantitative Analysis of Headache Powders;" Whipple, M. P., "The Effect of Temperature and Concentration on the Specific Rotation of Commercial Glucose;" Wiswall, P. M., "A Study of the Sepia Platinotype Printing Process."

COLLEGE NOTES

The glee and mandolin clubs of the University of California are to take a trip to Chicago at the expense of the Santa Fe Railroad. The clubs will perform for the benefit of the various railroad Y. M. C. A. branches and improvement clubs along the way, and in turn will receive free transportation from San Francisco to Chicago and return, also meals and the use of a special Pullman car. The trip will take about three weeks, and cover about 5,000 miles.

Penn students are now working on their annual show, "Merely a Monarch," the first performance of which will be held in Atlantic City on April 10. Five trips in all will be taken, the men playing in Atlantic City on April 10, afternoon and evening; April 12 and 17 at the Chestnut Street Opera House, Philadelphia; April 26, Broad Street Theatre, University Night; May 1st, Pittsburgh, afternoon and evening; May 3rd, evening performance at Buffalo—ten performances in all.

CORRECTION

The scleroscope was added to the equipment of the Machine Tool Laboratory on Garrison street and not as stated in Monday's issue.

TECH MEN WIN HONORS

An interesting competition was held last week in Providence by the Rhode Island Chapter of the American Institute of Architects in which Tech men won all the honors. One hour of the regular meeting was devoted to making sketches for the economical and artistic arrangement of sixty workmen's cottages on a plot of land enclosed by the parkway recently established by the Metropolitan Park Commission. First mention was awarded to Eleazer B. Homer 1885, second mention to John H. Cady 1906, and third mention to J. Howard Adams 1899.

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NOTICES

There will be no Hare and Hounds on Saturday. All C. C. men report at the Field on Saturday. A9

TECH SHOW.—No rehearsal for chorus today. Full rehearsal of chorus and principals at 2:15 sharp on Saturday.—R. F. Goodwin, Jr., Stage Manager.

TECHNIQUE RUSH—Tickets for the Rush will be on sale by members of the Board next week. All red tickets must then be exchanged for green Rush tickets.

RIFLE CLUB PRACTICE—at Wakefield, Saturday. Train leaves North Station at 2:15 P. M. Leave names at Cage for H. R. Wilbur or M. S. Tod. A9

W. A. Adams 1908, an old Show man, was married Sunday night to Miss Nellie Johnson of Allston. He left Monday morning for the Philippines where his wife will join him later.

THE TECH BUSINESS STAFF—There will be a meeting of all members of the business staff and candidates in the Tech office at 4:30 today. This is very important. A9

SENIOR PORTFOLIO—The attention of the senior class is called to the fact that all those who desire the Portfolio will have to order, and make a deposit of \$3.00 with any of the committee before April 15. A15

NEW YORK STATE CLUB—Dinner this evening at 6:15 upstairs in the Union. All students from New York will be welcome. Men coming will please notify W. D. Green, Cage. A9

The key to the new Technique case, which has been placed in the Union, can be had at the Cage, provided the borrower has the books charged to him personally. The key is to be returned by the borrower, when books will be checked off. A17 Union House Committee.

FACULTY NOTICES

FIRST-YEAR ENGLISH—Mr. Col-
lester's section meeting on Fridays at 12 will not meet on April 9. For Monday study carefully the selection from the Commemoration Ode.

FIRST-YEAR ENGLISH—Mr. Col-
lester's section meeting on Saturdays at 10 will not meet on April 10. On Tuesday, April 13, come for special exercise directly to Lowell 6.

CLASSIFIED ADS

Advertisements under this head are inserted at the rate of five cents a line of six words, payable in advance, and copy should be handed to the business manager the morning before publication day.

TO RENT.—Small steam heated room with gas on upper floor, \$1.50 per week. Apply at Suite two, 163 Huntington Ave. J 6

FOUND.—A small pocket knife in leather case. Owner please apply to boy selling The Tech at the Union. A9.

LOST.—At Armory, a silver, ten-cent dime. High reward. A. Z. Care of Cage. A9.

FOUND.—Organic Chemistry, Holleman. R. S. Bicknell, Cage. A7

N. H. S. Dinner, Thursday, April 15. All come! A14

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EXAMPLES

LOST.—Note book with initials A. K. S. on cover. Please leave at Cage for A. K. Simmons.

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